Author Index

ABDELHALEEM M. & SABBADINI E. Identification of immunosuppressive fractions from the rat submandibular salivary gland, 331

ABE T., SUGAYA H., YOSHIMURA K. & NAWA Y. Induction of the expulsion of *Strongyloides ratti* and retention of *Nippostrongylus brasiliensis* in athymic nude mice by repetitive administration of recombinant interleukin-3, 10

ABRAMOWICZ D. *see* SCHANDENÉ L.

ADAM A. *see* SOUVANNAVONG V.

AHLSTEDT S. *see* DAHLMAN A.

ALBERTI S. *see* LALOR P.

ALBERTS V.A. *see* COFFEY R.G.

ALÈGRE M.-L. *see* SCHANDENÉ L.

ALEXANDROV A.B. *see* JACKSON A.M.

ALLEN B. *see* ELSAGHIER A.

ALTMAN A., MALLY M.I. & ISAKOV N. Phorbol ester synergizes with Ca^{2+} ionophore in activation of protein kinase C (PKC)α and PKCβ isoenzymes in human T cells and in induction of related cellular functions, 465

ALVAREZ-VALLINA L. *see* MUÑOZ-FERNÁNDEZ M.A.

ANASTASI A.M. *see* DI MASSIMO A.M.

ANDERSON R. *see* SHEPHARD E.G.

ANDREWS E. *see* VERHAGEN A.M.

APPELBERG R., ORME I.M., PINTO DE SOUSA M.I. & SILVA M.T. *In vitro* effects of interleukin-4 on interferon-γ-induced macrophage activation, 553

ARCOLEO F. *see* CILLARI E.

ARORA R. *see* SAD S.

ASHERSON G.L. & DIELI F. Immune deviation in the mouse: transfer of selective depression of the contact sensitivity and interleukin-2 response with retention of interferon-gamma production requires $CD8^+$ T cells, 427

BACH S. *see* DI MASSIMO A.M.

BAILEY S. *see* THOMPSON K.M.

BANKHURST A.D. *see* WHALEN M.M.

BARCLAY A.N. *see* McCALL M.N.

BARDEN G. *see* THOMPSON K.M.

BATE C.A.W., TAVERNE J., BOOTSMA H.J., MASON R.C.ST H., SKALKO N., GREGORIADIS G. & PLAYFAIR J.H.L. Antibodies against phosphatidylinositol and inositol monophosphate specifically inhibit tumour necrosis factor induction by malaria exoantigens, 35

BAUGHN R.E., WICHER V. & WICHER K. Production of rheumatoid factor in adoptively immune guinea-pigs after challenge with *Treponema pallidum*, 548

BEHNKE D. *see* KIRCHEIS R.

BERTON G. *see* CASSATELLA M.A.

BERTOTTO A. *see* SCALISE F.

BETTLER B. *see* SARFATI M.

BEVAN L.J. *see* ROBERTS A.M.

BHARDWAJ N. *see* PANCHOLI P.

BIENENSTOCK J. *see* PEZZATI P.

BOGGS J.M. *see* HARVEY J.P.

BOL M. *see* PIETERS R.H.H.

BONIFACE C. *see* WILKINSGN J.M.

BOOTSMA H.J. *see* BATE C.A.W.

BORREBAECK C.A.K. *see* KRISTENSSON K.

BRANDON M.R. *see* VERHAGEN A.M.

BRETT S., ORRELL J.M., SWANSON BECK, J. & IVANYI J. Influence of H-2 genes on growth of *Mycobacterium tuberculosis* in the lungs of chronically infected mice, 129

BREVÉ J. *see* THEPEN T.

BREW R. *see* CHRISTMAS S.E.

BRICIO T. *see* MAMPASO F.

BRICKELL P.M. *see* FAULKNER L.

BRITTA R. *see* SCALISE F.

BROLIDEN K. *see* NIXON D.F.

BROLIDEN P.A. *see* NIXON D.F.

BROOKS C.G. *see* ROBINSON J.H.

BROWN S. *see* SOUVANNAVONG V.

BUCCI C. *see* LALOR P.

BURROW P. & NASH A.A. Susceptibility to Theiler's virus-induced demyelinating disease correlates with astrocyte class II induction and antigen presentation, 133

BURROWS S.R., SUHRBIER A., KHANNA R. & MOSS D.J. Rapid visual assay of cytotoxic T-cell specificity utilizing synthetic peptide induced T-cell–T-cell killing, 174

CAHILL K. *see* ROSE B.

CANNING P.C. *see* KNOBLOCK K.F.

CAPOBIANCHI M.R. *see* DI MASSIMO A.M.

CARDY S.M. *see* ROBERTS A.M.

CARLSSON R. *see* KRISTENSSON K.

CASE M.C. *see* ROBINSON J.H.

CASSATELLA M.A., TRINCHIERI G., HASSAN N.F., HARTMAN L., SORIO C. & BERTON G. Induction of differentiation of the human myeloid cell line, ML3, by tumour necrosis factor and interferon-gamma is accompanied by enhanced expression of the CD4 protein and messenger RNA, 55

CASTELLUCCI G. *see* SCALISE F.

CEBON J. *see* HAMILTON J.A.

CHADEE K. *see* WANG W.

CHALLACOMBE S.J., RAHMAN D., JEFFERY J., DAVIS S.S. & O'HAGAN D.T. Enhanced secretory IgA and systemic IgG antibody responses after oral immunization with biodegradable microparticles containing antigen, 164

CHERVENAK R. *see* SOLOFF R.S.

CHISHOLM G.D. *see* JACKSON A.M.

CHRISTMAS S.E., BREW R., CROSBY I., GECIM I.E. & SELLS R.A. Human T cells expressing Vβ8 do not predominantly recognize DR2 alloantigen, 192

CILLARI E., MILANO S., DIELI M., ARCOLEO F., PEREGO R., LEONI F., GROMO G., SEVERN A. & LIEW F.Y. Thymopentin reduces the susceptibility of aged mice to cutaneous leishmaniasis by modulating CD4 T-cell subsets, 362

CINTRON N.M. *see* MEEHAN R.T.

CLARE-SALZLER M. & MULLEN Y. Marked dendritic cell–T cell cluster formation in the pancreatic lymph node of the non-obese diabetic mouse, 478

COFFEY R.G., WEAKLAND L.L. & ALBERTS V.A. Paradoxical stimulation and inhibition by protein kinase C modulating agents of lipopolysaccharide evoked production of tumour necrosis factor in human monocytes, 48

COLDITZ I.G. & WATSON D.L. The effect of cytokines and chemotactic agonists on the migration of T lymphocytes into skin, 272

COLEMAN J.W. *see* O'DONNELL C.A.

COLES G.A. *see* MACKENZIE R.

COLIZZI V. *see* DI CESARE S.

COLIZZI V. *see* DI MASSIMO A.M.

COMPSTON D.A.S. *see* WING M.G.

CONTENT J. *see* SCHANDENÉ L.

CORDELL J.L. *see* PARKHOUSE R.M.E.

COSTA J.J., KEFFER J.M., GOFF J.P. & METCALFE D.D. Aphidicolin-induced proliferative arrest of murine mast cells: morphological and biochemical changes are not accompanied by alterations in cytokine gene induction, 413

CROSBY I. *see* CHRISTMAS S.E.

CRUPI S. *see* SCALISE F.

CRUSIAUX A. *see* SCHANDENÉ L.

DAHLGREN U.I. *see* DAHLMAN A.

DAHLMAN A., AHLSTEDT S., HANSON L.Å., TELEMO E., WOLD A.E. & DAHLGREN U.I. Induction of IgE antibodies and

T-cell reactivity to ovalbumin in rats colonized with *Escherichia coli* genetically manipulated to produce ovalbumin, 225
DAVIS S.S. *see* CHALLACOMBE S.J.
DAVIS W.C. *see* NAESSENS J.
DAYER J.-M. *see* GIRARDIN E.
DELESPESSE G. *see* SARFATI M.
DEMPSEY D. *see* SOLOFF R.S.
DI CESARE S., POCCIA F., MASTINO A. & COLIZZI V. Surface expressed heat-shock proteins by stressed or human immunodeficiency virus (HIV)-infected lymphoid cells represent the target for antibody-dependent cellular cytotoxicity, 341
DI MASSIMO A.M., PLACIDO R., BACH S., ANASTASI A.M., MASTINO A., CAPOBIANCHI M.R. & COLIZZI V. Cytotoxic activity of intestinal lamina propria lymphocytes on human immunodeficiency virus (HIV)-infected cells, 117
DIELI F. *see* ASHERSON G.L.
DIELI M. *see* CILLARI E.
DOSHI R.N. *see* WHALEN M.M.
DUPONT E. *see* SCHANDENÉ L.
DZUIBA J. *see* ROSE B.

ECKMANN L., MORZYCKA-WROBLEWSKA E., SMITH J.R. & KAGNOFF M.F. Cytokine-induced differentiation of IgA B cells: studies using an IgA expressing B-cell lymphoma, 235
ELSAGHIER A., NOLAN A., ALLEN B. & IVANYI J. Distinctive Western blot antibody patterns induced by infection of mice with individual strains of the *Mycobacterium avium* complex, 355
ELSON C.J. *see* LEADER K.A.
ERIKSSON M. *see* SJÖSTEDT A.
ERIKSSON M. *see* TÄRNVIK A.
ERLWEIN O. *see* REICH A.

FABIETTI G.M. *see* SCALISE F.
FAITH A., O'HEHIR R.E., MALKOVSKY M. & LAMB J.R. Analysis of the basis of resistance and susceptibility of $CD4^+$ T cells to human immunodeficiency virus (HIV)-gp120 induced anergy, 177
FAULKNER L., PATEL M., BRICKELL P.M. & KATZ D.R. Regulation of *c-fgr* messenger RNA levels in U937 cells treated with different modulating agents, 65
FINLAY-JONES J.J. *see* HART P.H.
FLEGO L. *see* ZOLA H.
FLEISCHER B. *see* MITTRÜCKER H.-W.
FONTÁN G. *see* MARÍN M.A.
FORNARO M. *see* LALOR P.
FOURNIER S. *see* SARFATI M.
FRESNO M. *see* MUÑOZ-FERNÁNDEZ M.A.
FRIDKIN M. *see* SHEPHARD E.G.
FRIEDL P., KÖNIG B. & KÖNIG W. Effects of mucoid and non-mucoid *Pseudomonas aeruginosa* isolates from cystic fibrosis patients on inflammatory mediator release from human polymorphonuclear granulocytes and rat mast cells, 86
FUJII S. *see* MAKINO S.
FUJIWARA M. *see* MATSUMOTO Y.
FUSE Y. *see* IMAZEKI N.

GAGNON N. *see* STAŇKOVÁ J.
GALEA-LAURI J. *see* WILKINSON J.M.
GALLATI H. *see* GIRARDIN E.
GAMBON F. *see* MUÑOZ-FERNÁNDEZ M.A.
GAO Y. *see* LEARY T.P.
GECIM I.E. *see* CHRISTMAS S.E.
GEOTZL E.J. *see* HARVEY J.P.
GERLI R. *see* SCALISE F.
GEWURX B.E. *see* YING S.-C.
GEWURZ A.T. *see* YING S.-C.
GEWURZ H. *see* YING S.-C.
GILLESPIE A. *see* ROSE B.
GIRARDIN E., ROUX-LOMBARD P., GRAU G.E., SUTER P., GALLATI H., THE J5 STUDY GROUP & DAYER J.-M. Imbalance between tumour necrosis factor-alpha and soluble TNF receptor concentrations in severe meningococcaemia, 20
GOFF J.P. *see* COSTA J.J.
GOLDMAN M. *see* SCHANDENE L.
GOLDSCHMIDT T.J. *see* HOLMDAHL R.
GONZÁLEZ A. *see* MUÑOZ-FERNÁNDEZ M.A.
GORDON J. *see* KATIRA A.
GOTTSHALL S.L. & HANSEN P.J. Regulation of leucocyte subpopulations in the sheep endometrium by progesterone, 636
GRAU G.E. *see* GIRARDIN E.
GREGORIADIS G. *see* BATE C.A.W.
GROMO G. *see* CILLARI E.

HADLEY A.G., ZUPANSKA B., KUMPEL B.M. & LEADER K.A. The functional activity of FcγRII and FcγRIII on subsets of human lymphocytes, 446
HAMILTON J.A., WHITTY G.A., ROYSTON A.K.M., CEBON J. & LAYTON J.E. Interleukin-4 suppresses granulocyte colony-stimulating factor and granulocyte–macrophage colony-stimulating factor levels in stimulated human monocytes, 566
HANSEN P.G.C. *see* JACKSON G.D.F.
HANSEN P.J. *see* GOTTSHALL S.L.
HANSON L.Å. *see* DAHLMAN A.
HANSSON M. *see* SITNICKA E.
HARA K. *see* MATSUKI Y.
HARDARD'OTTIR I., WHELAN J. & KINSELLA J.E. Kinetics of tumour necrosis factor and prostaglandin production by murine resident peritoneal macrophages as affected by dietary n–3 polyunsaturated fatty acids, 572
HART P.H., JONES C.A. & FINLAY-JONES J.J. Interleukin-4 suppression of monocyte tumour necrosis factor-α production. Dependence on protein synthesis but not on cyclic AMP production, 560
HARTMAN L. *see* CASSATELLA M.A.
HARVEY J.P., KOO C.H., BOGGS J.M., YOUNG R.N. & GEOTZL E.J. Mouse monoclonal antibody to a latent epitope of leucocyte receptors for leukotriene B_4, 122
HASEGAWA Y. *see* KAWABE T.
HASSAN N.F. *see* CASSATELLA M.A.
HAYNES D.R., WHITEHOUSE M.W. & VERNON-ROBERTS B. The prostaglandin E_1 analogue, Misoprostol, regulates inflammatory cytokines and immune functions *in vitro* like the natural prostaglandins E_1, E_2 and E_3, 251
HAYWARD A., SHRIBER M., KUBO R. & McDUFFIE M. T-cell repopulation following neonatal injection of non-obese diabetic (NOD) mice with anti-T-cell antibodies, 110
HERZENBERG L.A. *see* LALOR P.
HOEBEN K. *see* THEPEN T.
HOFSTETTER H. *see* SARFATI M.
HOLMDAHL R., GOLDSCHMIDT T.J., KLEINAU S., KVICK C. & JONSSON R. Arthritis induced in rats with adjuvant oil is a genetically restricted αβ T-cell dependent autoimmune disease, 197
HOLMSKOV U., TEISNER B., PEDERSEN N.T., LAURSEN S.B., RASMUSSEN H.B. & JENSENIUS J.C. Tissue localization of conglutinin, a bovine C-type lectin, 169
HUTCHINSON I.V. *see* SUTTON P.

IMAI Y. *see* YAMAKAWA M.
IMAZEKI N., SENOO A. & FUSE Y. Is the follicular dendritic cell a primarily stationary cell? 508
ISAKOV N. *see* ALTMAN A.
ISOBE K.-I. *see* KAWABE T.
ISSEKUTZ A.C. & ISSEKUTZ T.B. The contribution of LFA-1 (CD11a/CD18) and MAC-1 (CD11b/CD18) to the *in vivo* migration of polymorphonuclear leucocytes to inflammatory reactions in the rat, 665
ISSEKUTZ T.B. *see* ISSEKUTZ A.C.
IVANYI J. *see* BRETT S.
IVANYI J. *see* ELSAGHIER A.

JACKSON A.M., ALEXANDROV A.B., PRESCOTT S., JAMES K. & CHISHOLM G.D. Role of adhesion molecules in lymphokine-activated killer cell killing of bladder cancer cells: further evidence for a third ligand for leucocyte function-associated antigen-1, 286
JACKSON G.D.F., HANSEN P.G.C. & UNDERDOWN B.J. Further evidence that hepatic sources confer biliary antibody in the rat, 397
JAMES K. *see* JACKSON A.M.
JEFFERY J. *see* CHALLACOMBE S.J.
JENNINGS S.R. *see* SOLOFF R.S.

JENSENIUS J.C. *see* HOLMSKOV U.
JIANG H. *see* YING S.-C.
JONES C.A. *see* HART P.H.
JONSSON R. *see* HOLMDAHL R.

KAGNOFF M.F. *see* ECKMANN L.
KAMAL M. *see* KATIRA A.
KATAGIRI T. *see* KIMURA K.
KATIRA A., KAMAL M. & GORDON J. Occupancy of CD72 (the CD5 counterstructure) enchances interleukin-4-dependent CD23 expression in resting B lymphocytes, 422
KATZ D.R. *see* FAULKNER L.
KAWABE T., ISOBE K.-I., HASEGAWA Y., NAKASHIMA I. & SHIMOKATA K. Immunosuppressive activity induced by nitric oxide in culture supernatant of activated rat alveolar macrophages, 72
KEFFER J.M. *see* COSTA J.J.
KELLEY K. *see* ROSE B.
KHANNA R. *see* BURROWS S.R.
KIMURA K., OGATA Y., SHIMADA K., WAKABAYASHI T., ONODA H., KATAGIRI T. & MATSUZAWA A. Nephritogenicity of the *lpr*^{cg} gene on the MRL background, 498
KINSELLA J.E. *see* HARDARD'OTTIR I.
KIRCHEIS R., MILLECK J., KOROBKO V.G., SHINGAROVA L.N., BEHNKE D. & SCHMIDT H.E. Biological activity of mutants of human tumour necrosis factor-alpha, 433
KLEINAU S. *see* HOLMDAHL R.
KNOBLOCK K.F. & CANNING P.C. Modulation of *in vitro* porcine natural killer cell activity by recombinant interleukin-1α, interleukin-2 and interleukin-4, 299
KÖNIG B. *see* FRIEDL P.
KÖNIG W. *see* FRIEDL P.
KONISHI I. *see* MAKINO S.
KOO C.H. *see* HARVEY J.P.
KOROBKO V.G. *see* KIRCHEIS R.
KRAAL G. *see* THEPEN T.
KRAUS E.T. *see* MEEHAN R.T.
KRISTENSSON K., BORREBAECK C.A.K. & CARLSSON R. Human CD4$^+$ T cells expressing CD45RA acquire the lymphokine gene expression of CD45RO$^+$ T-helper cells after activation *in vitro*, 103
KUBO R. *see* HAYWARD A.
KUMPEL B.M. *see* HADLEY A.G.
KUMPEL B.M. *see* LEADER K.A.
KURASHIGE T. *see* TOMODA T.
KURIMOTO I. *see* YOSHIKAWA T.
KVICK C. *see* HOLMDAHL R.

LACHMANN P.J. *see* WING M.G.
LALOR P., BUCCI C., FORNARO M., RATTAZZI M.C., NAKAUCHI H., HERZENBERG L.A. & ALBERTI S. Molecular cloning, reconstruction and expression of the gene encoding the alpha-chain of the bovine CD8—definition of the three peptide regions conserved across species, 95
LAM B.W. *see* PIETERS R.H.H.
LAMB J.R. *see* FAITH A.
LAURSEN S.B. *see* HOLMSKOV U.
LAYTON J.E. *see* HAMILTON J.A.
LEADER K.A. *see* HADLEY A.G.
LEADER K.A., MACHT L.M., STEERS F., KUMPEL B.M. & ELSON C.J. Antibody responses to the blood group antigen D in SCID mice reconstituted with human blood mononuclear cells, 229
LEARY T.P., GAO Y. & SPLITTER G.A. Constitutively expressing cell lines that secrete a truncated bovine herpes virus-1 glycoprotein (gpI) stimulate T-lymphocyte responsiveness, 367
LEMLEY P.V. & WRIGHT D.C. Mice are actively immunized after passive monoclonal antibody prophylaxis and ricin toxin challenge, 511
LEONI F. *see* CILLARI E.
LETELLIER M. *see* SARFATI M.
LIEBERT U.G. *see* REICH A.
LIEW F.Y. *see* CILLARI E.
LÓPEZ-TRASCASA M. *see* MARÍN M.A.
McCALL M.N., SHOTTON D.M. & BARCLAY A.N. Expression of soluble isoforms of rat CD45. Analysis by electron microscopy and use in epitope mapping of anti-CD45R monoclonal antibodies, 310
McDUFFIE M. *see* HAYWARD A.
MACHT L.M. *see* LEADER K.A.
MACHUGH N. *see* NAESSENS J.
MACKENZIE R., COLES G.A., TOPLEY N., POWELL W.S. & WILLIAMS J.D. Down-regulation of cyclooxygenase product generation by human peritoneal macrophages, 648
MAEKAWA N. *see* MAKINO S.
MAGOULAS T. *see* TO S.S.T.
MAKINO S., MASUTANI H., MAEKAWA N., KONISHI I., FUJII S., YAMAMOTO R. & YODOI J. Adult T-cell leukaemia-derived factor/thioredoxin expression on the HTLV-I transformed T-cell lines: heterogeneous expression in ATL-2 cells, 578
MALKOVSKY M. *see* FAITH A.
MALLY M.I. *see* ALTMAN A.
MAMPASO F., BRICIO T., MARTIN A. & MOLINA A. Production of interleukin-1-like cytokine by cultured rat glomerular macrophages, 408
MARCHALONIS J.J. *see* YING S.-C.
MARCINKIEWICZ J., OLSZOWSKA E., OLSZOWSKI S. & ZGLICZYNSKI J.M. Enhancement of trinitrophenyl-specific humoral response to TNP proteins as the result of carrier chlorination, 385
MARÍN M.A., FONTÁN G. & LÓPEZ-TRASCASA M. Requirements for the production of high-titre C3 nephritic factor (NEF) antibody *in vitro*, 318
MARSHALL J.S. *see* PEZZATI P.
MARTIN A. *see* MAMPASO F.
MASON D.Y. *see* PARKHOUSE R.M.E.
MASON R.C.ST H. *see* BATE C.A.W.
MASTINO A. *see* DI CESARE S.
MASTINO A. *see* DI MASSIMO A.M.
MASUTANI H. *see* MAKINO S.
MATSUKI Y., YAMAMOTO T. & HARA K. Detection of inflammatory cytokine messenger RNA (mRNA)-expressing cells in human inflamed gingiva by combined *in situ* hybridization and immunohistochemistry, 42
MATSUMOTO Y., OHMORI K. & FUJIWARA M. Immune regulation by brain cells in the central nervous system: microglia but not astrocytes present myelin basic protein to encephalitogenic T cells under *in vivo*-mimicking conditions, 209
MATSUZAWA A. *see* KIMURA K.
MEEHAN R.T., NEALE L.S., KRAUS E.T., STUART C.A., SMITH M.L., CINTRON N.M. & SAMS C.F. Alteration in human mononuclear leucocytes following space flight, 491
MELAMED M.D. *see* THOMPSON K.M.
METCALFE D.D. *see* COSTA J.J.
METCALFE S. *see* RICHARDS F.M.
MILANO S. *see* CILLARI E.
MILLECK J. *see* KIRCHEIS R.
MILNER J. *see* RICHARDS F.M.
MITTRÜCKER H.-W. & FLEISCHER B. Functional localization of an exocytosis-triggering G-protein in human cytotoxic T lymphocytes, 610
MOHAPATRA S.S. *see* ZHANG L.
MOLINA A. *see* MAMPASO F.
MORGAN B.P. *see* ROONEY I.A.
MORZYCKA-WROBLEWSKA E. *see* ECKMANN L.
MOSS D.J. *see* BURROWS S.R.
MULLEN Y. *see* CLARE-SALZLER M.
MUÑOZ-FERNÁNDEZ M.A., PIMENTEL-MUIÑOS F.X., GONZÁLEZ A., GAMBON F., ALVAREZ-VALLINA L. & FRESNO M. Differential effect of tumour necrosis factor on human thymocyte subpopulations, 439
MURAKAMI S. *see* SHIMABUKURO Y.

NAESSENS J., SILEGHEM M., MACHUGH N., PARK Y.H., DAVIS W.C. & TOYE P. Selection of BoCD25 monoclonal antibodies by screening mouse L cells transfected with the bovine p55-interleukin-2 (IL-2) receptor gene, 305
NAKASHIMA I. *see* KAWABE T.

NAKAUCHI H. *see* LALOR P.
NASH A.A. *see* BURROW P.
NASH A.D. *see* VERHAGEN A.M.
NAWA Y. *see* ABE T.
NEALE L.S. *see* MEEHAN R.T.
NI K. *see* O'NEILL H.C.
NICHOLSON E. *see* TO S.S.T.
NIEWIESK S. *see* REICH A.
NIXON D.F., BROLIDEN K., OGG G. & BROLIDEN P.A. Cellular and humoral antigenic epitopes in HIV and SIV, 515
NOLAN A. *see* ELSAGHIER A.

O'DONNELL C.A. & COLEMAN J.W. A T-cell response to the anti-arthritic drug penicillamine in the mouse: requirements for generation of the drug-derived antigen, 604
O'HAGAN D.T. *see* CHALLACOMBE S.J.
O'HEHIR R.E. *see* FAITH A.
O'NEILL H.C., NI K. & O'NEILL T.J. Lymphoid precursor cell lines have capacity to migrate to multiple lymphoid sites, 631
O'NEILL T.J. *see* O'NEILL H.C.
OGATA Y. *see* KIMURA K.
OGG G. *see* NIXON D.F.
OHMORI K. *see* MATSUMOTO Y.
OKADA H. *see* SHIMABUKURO Y.
OLSZOWSKA E. *see* MARCINKIEWICZ J.
OLSZOWSKI S. *see* MARCINKIEWICZ J.
ONODA H. *see* KIMURA K.
ORME I.M. *see* APPELBERG R.
ORRELL J.M. *see* BRETT S.

PANCHOLI P., STEINMAN R.M. & BHARDWAJ N. Dendritic cells efficiently immunoselect mycobacterial-reactive T cells in human blood, including clonable antigen-reactive precursors, 217
PARK Y.H. *see* NAESSENS J.
PARKHOUSE R.M.E., PREECE G., SUTTON R., CORDELL J.L. & MASON D.Y. Relative expression of surface IgM, IgD and the Ig-associating α(mb-1) and β(B-29) polypeptide chains, 535
PATEL M. *see* FAULKNER L.
PEDERSEN N.T. *see* HOLMSKOV U.
PENNINKS A.H. *see* PIETERS R.H.H.
PEREGO R. *see* CILLARI E.
PEZZATI P., STANISZ A.M., MARSHALL J.S., BIENENSTOCK J. & STEAD R.H. Expression of nerve growth factor receptor immunoreactivity on follicular dendritic cells from human mucosa associated lymphoid tissues, 485
PIETERS R.H.H., BOL M., LAM B.W., SEINEN W. & PENNINKS A.H. The organotin-induced thymus atrophy, characterized by depletion of $CD4^+$ $CD8^+$ thymocytes, is preceded by a reduction of the immature $CD4^-$ $CD8^+$ $TcR\alpha\beta^{-/low}$ $CD2^{high}$ thymoblast subset, 203
PIMENTEL-MUIÑOS F.X. *see* MUÑOZ-FERNÁNDEZ M.A.
PINTO DE SOUSA M.I. *see* APPELBERG R.
PLACIDO R. *see* DI MASSIMO A.M.
PLAYFAIR J.H.L. *see* BATE C.A.W.
POCCIA F. *see* DI CESARE S.
POWELL W.S. *see* MACKENZIE R.
PREECE G. *see* PARKHOUSE R.M.E.
PRESCOTT S. *see* JACKSON A.M.

QUIGG R.J. Inhibition of the alternative pathway of complement by glomerular chondroitin sulphate proteoglycan, 373

RAGHUPATHY R. *see* SAD S.
RAHMAN D. *see* CHALLACOMBE S.J.
RAO K. *see* SAD S.
RASMUSSEN H.B. *see* HOLMSKOV U.
RATTAZZI M.C. *see* LALOR P.
REICH A., ERLWEIN O., NIEWIESK S., TER MEULEN V. & LIEBERT U.G. $CD4^+$ T cells control measles virus infection of the central nervous system, 185
RICHARDS F.M., MILNER J. & METCALFE S. Inhibition of the serine/threonine protein phosphatases PP1 and PP2A in lymphocytes: effect on mRNA levels for interleukin-2, IL-2Rα, krox-24, p53, hsc70 and cyclophilin, 642
ROBERTS A.M., VAN REE R., CARDY S.M., BEVAN L.J. & WALKER M.R. Recombinant pollen allergens from *Dactylis glomerata*: prelimary evidence that human IgE cross-reactivity between *Dac g* II and *Lol p* I/II is increased following grass pollen immunotherapy, 389
ROBINSON J.H., CASE M.C. & BROOKS C.G. Palmitic acid conjugation of a protein antigen enhances major histocompatibility complex class II-restricted presentation to T cells, 593
ROLA-PLESZCZYNSKI M. *see* STAŇKOVÁ J.
ROONEY I.A. & MORGAN B.P. Characterization of the membrane attack complex inhibitory protein CD59 antigen on human amniotic cells and in amniotic fluid, 541
ROSE B., GILLESPIE A., WUNDERLICH D., KELLEY K., DZUIBA J., SHEDD D., CAHILL K. & ZERLER B. Differential effects of a murine and chimeric mouse/human anti-interleukin-2 receptor antibody on human T-cell proliferation, 452
ROSEN O. *see* SHEPHARD E.G.
ROUX-LOMBARD P. *see* GIRARDIN E.
ROYSTON A.K.M. *see* HAMILTON J.A.
RUBIO-TRUJILLO M. *see* SARFATI M.
RUIS N.M. *see* VALONE F.H.

SABBADINI E. *see* ABDELHALEEM M.
SAD S., RAO K., ARORA R., TALWAR G.P. & RAGHUPATHY R. Bypass of carrier-induced epitope-specific suppression using a T-helper epitope, 599
SAMS C.F. *see* MEEHAN R.T.
SANDSTRÖM G. *see* SJÖSTEDT A.
SANDSTRÖM G. *see* TÄRNVIK A.
SARFATI M., BETTLER B., LETELLIER M., FOURNIER S., RUBIO-TRUJILLO M., HOFSTETTER H. & DELESPESSE G. Native and recombinant soluble CD23 fragments with IgE suppressive activity, 662
SCALISE F., GERLI R., CASTELLUCCI G., SPINOZZI F., FABIETTI G.M., CRUPI S., SENSI L., BRITTA R., VACCARO R. & BERTOTTO A. Lymphocytes bearing the $\gamma\delta$ T-cell receptor in acute toxoplasmosis, 668
SCHANDENÉ L., VANDENBUSSCHE P., CRUSIAUX A., ALÈGRE M.-L., ABRAMOWICZ D., DUPONT E., CONTENT J. & GOLDMAN M. Differential effects of pentoxifylline on the production of tumour necrosis factor-alpha (TNF-α) and interleukin-6 (IL-6) by monocytes and T cell, 30
SCHMIDT H.E. *see* KIRCHEIS R.
SCHRIEBER L. *see* TO S.S.T.
SEHON A.H. *see* ZHANG L.
SEILLY D.J. *see* WING M.G.
SEINEN W. *see* PIETERS R.H.H.
SELLARS R.A. *see* WILKINSON J.M.
SELLS R.A. *see* CHRISTMAS S.E.
SENOO A. *see* IMAZEKI N.
SENSI L. *see* SCALISE F.
SEVERN A. *see* CILLARI E.
SHEDD D. *see* ROSE B.
SHEPHARD E.G., ANDERSON R., ROSEN O. & FRIDKIN M. C-reactive protein (CRP) peptides inactivate enolase in human neutrophils leading to depletion of intracellular ATP and inhibition of superoxide generation, 79
SHIMABUKURO Y., MURAKAMI S. & OKADA H. Interferon-gamma-dependent immunosuppressive effects of human gingival fibroblasts, 344
SHIMADA K. *see* KIMURA K.
SHIMOKATA K. *see* KAWABE T.
SHINGAROVA L.N. *see* KIRCHEIS R.
SHOTTON D.M. *see* McCALL M.N.
SHRIBER M. *see* HAYWARD A.
SIEGEL J.N. *see* YING S.-C.
SILEGHEM M. *see* NAESSENS J.
SILVA M.T. *see* APPELBERG R.
SITNICKA E. & HANSSON M. Natural killer (NK) cell activity in human long-term bone marrow cultures (LTBMC): effects of interleukin-2 (IL-2) and granulocyte–macrophage colony-stimulating factor (GM-CSF) on the progenitor cells, 292
SJÖSTEDT A. *see* TÄRNVIK A.
SJÖSTEDT A., ERIKSSON M., SANDSTRÖM G. & TÄRNVIK A.

Various membrane proteins of *Francisella tularensis* induce interferon-γ production in both $CD4^+$ and $CD8^+$ T cells of primed humans, 584
SKALKO N. *see* BATE C.A.W.
SMITH J.R. *see* ECKMANN L.
SMITH M.L. *see* MEEHAN R.T.
SOLOFF R.S., DEMPSEY D., JENNINGS S.R., WOLCOTT R.M. & CHERVENAK R. Characterization of the progeny of precursor-T (pre-T) cells maintained *in vitro* by interleukin-3 (IL-3). Development of T-cell function *in vivo*, 279
SORIO C. *see* CASSATELLA M.A.
SOUVANNAVONG V., BROWN S. & ADAM A. Interleukin-5 increases the expression of alkaline phosphatase activity in murine B lymphocytes, 505
SPINOZZI F. *see* SCALISE F.
SPLITTER G.A. *see* LEARY T.P.
STANISZ A.M. *see* PEZZATI P.
STAŇKOVÁ J., GAGNON N. & ROLA-PLESZCZYNSKI M. Leukotriene B_4 augments interleukin-2 receptor-beta (IL-2Rβ) expression and IL-2Rβ-mediated cytotoxic response in human peripheral blood lymphocytes, 258
STANSFIELD A.G. *see* WOOD P.J.
STEAD R.H. *see* PEZZATI P.
STEERS F. *see* LEADER K.A.
STEINMAN R.M. *see* PANCHOLI P.
STODDART R.W. *see* SUTTON P.
STREILEIN J.W. *see* YOSHIKAWA T.
STUART C.A. *see* MEEHAN R.T.
SUGAYA H. *see* ABE T.
SUHRBIER A. *see* BURROWS S.R.
SUTER P. *see* GIRARDIN E.
SUTHERLAND J. *see* THOMPSON K.M.
SUTTON P., STODDART R.W. & HUTCHINSON I.V. Altered patterns of glycosylation on rat lymphocytes associated with activation, 472
SUTTON R. *see* PARKHOUSE R.M.E.
SWANSON BECK, J. *see* BRETT S.

TALWAR G.P. *see* SAD S.
TANIGUCHI T. *see* TOMODA T.
TÄRNVIK A. *see* SJÖSTEDT A.
TÄRNVIK A., ERIKSSON M., SANDSTRÖM G. & SJÖSTEDT A. *Francisella tularensis*—a model for studies of the immune response to intracellular bacteria in man, 349
TAVERNE J. *see* BATE C.A.W.
TEISNER B. *see* HOLMSKOV U.
TELEMO E. *see* DAHLMAN A.
TER MEULEN V. *see* REICH A.
THE J5 STUDY GROUP *see* GIRARDIN E.
THEPEN T., HOEBEN K., BREVÉ J. & KRAAL G. Alveolar macrophages down-regulate local pulmonary immune responses against intratracheally administered T-cell-dependent, but not T-cell-independent antigens, 60
THOMPSON K.M., SUTHERLAND J., BARDEN G., MELAMED M.D., WRIGHT M.G., BAILEY S. & THORPE S.J. Human monoclonal antibodies specific for blood group antigens demonstrate multispecific properties characteristic of natural autoantibodies, 146
THORPE S.J. *see* THOMPSON K.M.
TO S.S.T., MAGOULAS T., NICHOLSON E. & SCHRIEBER L. Identification of a human endothelial cell activation antigen that is co-expressed by germinal follicle centre B lymphocytes, 616
TOMODA T., KURASHIGE T. & TANIGUCHI T. Stimulatory effect of interleukin-1β on the interferon-gamma-dependent HLA-DR production, 15
TOPLEY N. *see* MACKENZIE R.
TOYE P. *see* NAESSENS J.
TRINCHIERI G. *see* CASSATELLA M.A.

UNDERDOWN B.J. *see* JACKSON G.D.F.

VACCARO R. *see* SCALISE F.
VALONE F.H. & RUIS N.M. Stimulation of tumour necrosis factor release by cytotoxic analogues of platelet-activating factor, 24
VAN REE R. *see* ROBERTS A.M.
VANDENBUSSCHE P. *see* SCHANDENÉ L.
VERHAGEN A.M., ANDREWS E., BRANDON M.R. & NASH A.D. Molecular cloning, expression and characterization of the ovine IL-2Rα chain, 1
VERNON-ROBERTS B. *see* HAYNES D.R.

WAKABAYASHI T. *see* KIMURA K.
WALKER M.R. *see* ROBERTS A.M.
WANG W. & CHADEE K. *Entamoeba histolytica* alters arachidonic acid metabolism in macrophages *in vitro* and *in vivo*, 242
WATSON D.L. *see* COLDITZ I.G.
WEAKLAND L.L. *see* COFFEY R.G.
WHALEN M.M., DOSHI R.N. & BANKHURST A.D. Effects of pertussis toxin treatment on human natural killer cell function, 402
WHELAN J. *see* HARDARD'OTTIR I.
WHITEHOUSE M.W. *see* HAYNES D.R.
WHITTY G.A. *see* HAMILTON J.A.
WICHER K. *see* BAUGHN R.E.
WICHER V. *see* BAUGHN R.E.
WILKINSON J.M., GALEA-LAURI J., SELLARS R.A. & BONIFACE C. Identification and tissue distribution of rabbit leucocyte antigens recognized by monoclonal antibodies, 625
WILLIAMS J.D. *see* MACKENZIE R.
WING M.G., ZAJICEK J., SEILLY D.J., COMPSTON D.A.S. & LACHMANN P.J. Oligodendrocytes lack glycolipid anchored proteins which protect them against complement lysis. Restoration of resistance to lysis by incorporation of CD59, 140
WOLCOTT R.M. *see* SOLOFF R.S.
WOLD A.E. *see* DAHLMAN A.
WOOD P.J. & STANSFIELD A.G. Inhibition of T-cell mediated cytotoxicity by Novobiocin suggests multiple pathways for both $CD4^+$ and $CD8^+$ cytotoxic T cells, 460
WRIGHT D.C. *see* LEMLEY P.V.
WRIGHT M.G. *see* THOMPSON K.M.
WUNDERLICH D. *see* ROSE B.

YAMAKAWA M. & IMAI Y. Complement activation in the follicular light zone of human lymphoid tissues, 378
YAMAMOTO R. *see* MAKINO S.
YAMAMOTO T. *see* MATSUKI Y.
YING S.-C., MARCHALONIS J.J., GEWURZ A.T., SIEGEL J.N., JIANG H., GEWURX B.E. & GEWURZ H. Reactivity of anti-human C-reactive protein (CRP) and serum amyloid P component (SAP) monoclonal antibodies with limulin and pentraxins of other species, 324
YODOI J. *see* MAKINO S.
YOSHIKAWA T., KURIMOTO I. & STREILEIN J.W. Tumour necrosis factor-alpha mediates ultraviolet light B-enhanced expression of contact hypersensitivity, 264
YOSHIMURA K. *see* ABE T.
YOUNG R.N. *see* HARVEY J.P.

ZAJICEK J. *see* WING M.G.
ZERLER B. *see* ROSE B.
ZGLICZYNSKI J.M. *see* MARCINKIEWICZ J.
ZHANG L., SEHON A.H. & MOHAPATRA S.S. Induction of IgE antibodies in mice with recombinant grass pollen antigens, 158
ZOLA H. & FLEGO L. Expression of interleukin-6 receptor on blood lymphocytes without *in vitro* activation, 338
ZUPANSKA B. *see* HADLEY A.G.

Subject Index

Active immunization:
by passive monoclonal antibody prophylaxis, 511
Allergens, grass pollen:
immunogenicity of, 158
Alveolar macrophages:
suppression of pulmonary immune responses, 60
Anti-D antibodies:
in SCID mice, 229
Anti-interleukin-2 receptor antibodies:
effects on T-cell proliferation, 452
Antibody responses:
in *Mycobacterium avium* infected mice, 355
Arachidonic acid metabolism:
in amoebiasis, 242
Arthritis:
adjuvant induced, 197
Autoimmune adjuvant-induced arthritis, 197

Biliary antibody, rat:
hepatic source, 397
Brain cells:
immune regulation by, 209

c-fgr mRNA in U937 cells:
regulation of levels, 65
C-reactive protein and serum amyloid P component, monoclonal antibodies to:
reactivity with limulin and pentraxins, 324
C-reactive protein peptides, effect on intracellular ATP and superoxide generation:
in human neutrophils, 79
C3 nephritic factor antibody:
requirements for production, 318
Carrier chlorination:
enhancement of antibody response, 385
CD23 expression, interleukin-4 dependent:
enhancement by CD27 occupancy, 422
CD23, soluble:
with IgE suppressive activity, 662
$CD4^+$ T cells, human:
activation *in vitro*, 103
CD45, rat:
soluble isoforms, 310
CD59, membrane attack complex inhibitory protein:
characterization, 541
CD8α, bovine:
cloning, 95
Complement activation:
in follicular light zone of human lymphoid tissues, 378
Complement, alternative pathway:
inhibition by chondroitin sulphate proteoglycan, 373
Conglutinin:
tissue localization, 169
Cyclooxygenase product:
down-regulation by macrophages, 648
Cytokine-induced differentiation of IgA B cells, 235
Cytotoxic T-cell specificity:
visual assay, 174

Demyelinating disease, induced by Theiler's virus:
and astrocytes, 133
Dendritic cell, follicular:
cellular nature of, 508
Dendritic cell–T cell cluster production:
in NOD mice, 478
Dendritic cells:
selection of mycobacterial-reactive T cells, 217

Endothelial cell activation antigen:
activation by germinal follicle centre B lymphocytes, 616
Epitope suppression, carrier induced:
bypass using a T-helper epitope, 599
Epitopes, humoral and cellular:
in human immunodeficiency virus and simian immunodeficiency virus, 515

Fcγ receptors II and III:
functional activity, 446

G-protein, exocytosis triggering:
functional localization in cytotoxic T lymphocyte, 610
Gingiva, human:
cytokine mRNA expressing cells in, 42
Glycosylation patterns:
on rat lymphocytes, 472

H-2 genes:
influence on growth of *Mycobacterium tuberculosis*, 129
Heat-shock proteins, produced by stressed or human immunodeficiency virus-infected cells:
as targets for antibody-dependent cellular cytotoxicity, 341
HTLV-transformed T-cell lines:
ADF/thioredoxin expression on, 578
Human immunodeficiency virus-gp120 induced anergy:
basis of resistance and susceptibility to, 177
Human $V\beta8^+$ T cells:
and anti-DR2 responses, 192

IgE antibodies and T-cell responses to ovalbumin in rats colonized with ovalbumin-producing *Escherichia coli*, 225
Immune deviation, in the mouse:
role of $CD8^+$ T cells, 427
Immunosuppression, interferon-γ-dependent:
by human gingival fibroblasts, 344
Immunosuppressive fractions:
rat salivary gland, 331
Inflammatory mediator, release from polymorphonuclear and mast cells:
effect of mucoid and non-mucoid isolates from *Pseudomonas aeruginosa*, 86
Interferon-γ:
production induced in human T cells by *Francisella tularensis*, 584
Interleukin-1β:
stimulatory effect on IFN-γ-dependent HLA-DR production, 15
Interleukin-1-like cytokine:
production by rat glomerular macrophages, 408
Interleukin-2 receptor, ovine:
characterization, 1
Interleukin-2 receptor-α, bovine:
selection of monoclonal antibodies, 305
Interleukin-3, recombinant:
induction of worm expulsion, 10
Interleukin-4:
and granulocyte colony-stimulating factor and granulocyte–macrophage colony-stimulating factor levels, 566
effects on macrophage activation, 553
suppression of tumour necrosis factor-α production, 560

Interleukin-5:
stimulation of alkaline phosphatase in B cells, 505
Interleukin-6 receptor:
expression on blood lymphocytes, 338

Leucocyte antigen, rabbit:
identification and tissue distribution, 625
Leukotriene B_4 receptors:
antibody to latent epitope on, 122
Lipopeptide:
major histocompatibility complex class II-restricted presentation, 593
lpr^{cg} gene:
nephritogenicity of, 498
LTB_4:
augmentation of interleukin-2 receptor-β expression, 258
Lymphocyte responsiveness:
to secreted bovine herpes virus-1 glycoprotein, 367
Lymphoid cell precursors:
migration of, 631
Lymphokine-activated killer activity:
role of adhesion molecules, 286

Mast cells:
proliferative arrest by aphidicolin, 413
Measles virus infection:
control by CD4 T cells, 185
Membrane immunoglobulins:
association with transmembrane polypeptide chains, 535:
Microparticles, biodegradable:
oral immunization with, 164
Monoclonal antibodies, to blood group antigens:
multispecific properties, 146
Mucosal lymphocytes:
and human immunodeficiency virus infection, 117
Myeloid cell line, human, M3:
induction of differentiation by tumour necrosis factor, 55

Natural killer cell activity in long-term bone marrow cultures:
effect of interleukin-2 and granulocyte–macrophage colony-stimulating factor, 292
Natural killer cell activity, porcine:
modulation by cytokines, 299
Natural killer cells:
effects of pertussis toxin on, 402
Nerve growth factor:
expression on follicular dendritic cells from human mucosa, 485
Nitric oxide:
immunosuppressive activity, 72

Oligodendrocytes, lack of anchor proteins: resistance to lysis by incorporation of CD59, 140

Penicillamine:
T-cell responses to, 604
Pentoxifylline:
effects on tumour necrosis factor and interleukin-6 production, 30
Phorbol ester:
synergism with calcium ionophore in T-cell activation, 465
Pollen allergens, recombinant:
cross-reactivity, 389
Polymorphonuclear leucocyte migration:
role of LFA-1 and MAC-1, 655
Pre-T-cell progeny:
function of, 279
Progesterone:
effects on endometrical leucocytes, 636
Prostagladin E_1 analogue, misoprostal:
immune regulation by, 251

Rheumatoid factor production:
in adoptively immue guinea-pigs, 548

Serine/threonine protein phosphatases, inhibition:
in lymphocytes, 642
Space flight:
alterations in mononuclear leucocytes, 491

T lymphocyte, migration into skin:
effect of cytokines, 272
T-cell antigens:
of intracellular bacteria, 349
T-cell mediated cytotoxicity:
inhibition by Novobiocin, 460
$\gamma\delta$ T-cell receptor-bearing lymphocytes:
in acute toxoplasmosis, 668
T-cell repopulation:
after infection of NOD mice with anti-T-cell antibodies, 110
T-cell responses to penicillamine, 604
Thymopentin:
and CD4 cells in Leishmaniasis, 362
Thymus atrophy:
organotin induced, 203
Tumour necrosis factor:
effects on thymocytes, 439
release stimulated by analogues of platelet-activating factor, 24
Tumour necrosis factor and prostaglandin production:
effect of n–3 fatty acids, 572
Tumour necrosis factor induction, by malarial exoantigens:
inhibition by antibodies to phosphatidylinositol and inositol, 35
Tumour necrosis factor production, lipopolysaccharide evoked:
effect of protein kinase C modulating agents, 48
Tumour necrosis factor-α:
mediation of ultraviolet-enhanced contact hypersensitivity, 264
Tumour necrosis factor-α and soluble TNF receptor:
concentrations in meningococcaemia, 20
Tumour necrosis factor-α, human:
biological activity of mutants, 433
Tumour necrosis factor-α, monocyte:
suppression by interleukin-4, 560